## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. 75. Cancelled.
- 76. (Currently amended) A mobile access unit for use in a localized communications system, comprising:
  - a video input configured to receive real-time video information;
  - a video output configured to provide real-time video information;
- a codec connected to the video input and video output that is configured to encode real-time video information received from the video input, decode encoded real-time video information and provide the decoded real-time video information to the video output; and
  - a transceiver, comprising:
- a transmitter connected to the codec that is configured to transmit a data stream generated provided by the codec over an upstream wireless communication link; and
- a receiver connected to the codec that is configured to receive a data stream transmitted over a downstream wireless communication link, which includes encoded real-time video;

wherein the codec is configured to:

encode real-time video information received from the video input; and

multiplex the encoded real-time video with other data to generate the data stream

provided by the codec to the transmitter; and

wherein the codec is also configured to:

demultiplex the encoded real-time video from the data stream provided to the codec by the receiver; and

decode the encoded real-time video information and provide the decoded real-time video information to the video output.

- 77. (Cancelled)
- 78. (Previously presented) The mobile access unit of claim 76, further comprising a heads up display connected to the video output and configured to receive real-time video.
- 79. (Previously presented) The mobile access unit of claim 76, further comprising a video camera connected to the video input and configured to provide a real-time video output.
  - 80. (Currently amended) The mobile access unit of claim 76, further comprising: an audio input configured to receive real-time audio information; an audio output configured to provide real-time audio\_information; wherein the codec is connected to the audio input and the audio output; wherein the codec is configured to:

encode real-time audio information received from the audio input; decode encoded real-time audio and provide the decoded real-time audio to the audio output;

wherein the codec is configured to multiplex encoded real-time video with at least the real-time audio encoded by the codec to generate the data stream that is provided to the transmitter; and

wherein the codec is configured to:

demultiplex encoded real-time video from the data stream provided by the receiver that also includes at least encoded real-time audio;

decode the encoded real-time audio and provide the decoded real-time audio to the audio output.

81. (Previously presented) The mobile access unit of claim 80, further comprising a headphone set connected to the audio output and configured to receive real-time audio.

- 82. (Previously presented) The mobile access unit of claim 80, further comprising a microphone connected to the audio input and configured to provide a real-time video output.
  - 83. (Previously presented) The mobile access unit of claim 76, further comprising: a user interface input configured to receive information;

wherein the codec is connected to the user interface input and is configured to encode the user interface information;

wherein the codec is configured to multiplex encoded real-time video with at least the encoded user interface information to form a data stream that is provided to the transmitter; and

wherein the encoded user interface information is capable of commanding a remote device.

- 84. (Previously presented) The mobile access unit of claim 76, wherein the codec is implemented using at least one electronic device.
  - 85. (Currently amended) A communication system, comprising:

at least one mobile access unit configured to communicate in a localized area with a base station, the mobile access unit comprising:

- a video input configured to receive real-time video information;
- a video output configured to receive real-time video;
- a mobile access unit codec connected to the video input and the video output; that is configured to encode real time video information received from the video input, decode encoded real time video information and provide the decoded real-time video information to the video output; and

a transceiver, comprising:

a mobile access unit transmitter connected to the mobile access unit codec that is configured to transmit a data stream generated by the codec over an upstream wireless communication link; and

a mobile access unit receiver connected to the mobile access unit codec that is configured to receive a data stream transmitted over a downstream wireless communication link, which includes encoded real-time video; wherein the mobile access unit codec is configured to: encode real-time video information received from the video input; and muliplex the encoded real-time video with other data to generate the data stream provided by the mobile access unit codec to the transmitter; and wherein the codec is also configured to: demultiplex the encoded real-time video from the data stream provided to the codec by the receiver; and decode the encoded real-time video information and provide the decoded real-time video information to the video output; and a fixed base station, comprising: memory containing a registry of mobile access units within the localized area; a transceiver, comprising: a base station transmitter that is configured to transmit a data stream including real-time video generated over the downstream wireless communication link; and a base station receiver configured to receive a data stream transmitted over the upstream wireless communication link, which includes encoded real-time video. 86. (Currently amended) The communications system of claim 85, further comprising: a base station router connected to the base station transceiver; wherein the mobile access unit codec: is configured to multiplex encoded real-time video with other data to generate the

is configured to demultiplex encoded real time video from the data-stream

data stream provided to the mobile access unit transmitter; and

provided to the mobile access unit codec by the mobile access unit receiver; and

wherein the base station router:

is configured to multiplex encoded real-time video with other data to generate the data stream provided by the base station router to the base station transmitter; and

is configured to demultiplex encoded real-time video from the data stream provided to the base station router by the base station receiver.

87. (Previously presented) The communication system of claim 86, further comprising:

a network bridge connected to the base station router; and

wherein the base station router is configured to receive encoded real-time video from the base station receiver and route the encoded real-time video to the base station transmitter or to the network bridge.

88. (Previously presented) The communication system of claim 87, wherein: the mobile access units further comprise:

an audio input configured to receive real-time audio information;

wherein the mobile access unit codec is connected to the audio input;

wherein the mobile access unit codec is configured to encode real-time audio information;

wherein the mobile access unit codec is configured to multiplex encoded real-time video with at least the encoded real-time audio to generate the data stream that is provided to the transmitter; and

wherein the fixed base station router is configured to demultiplex at least encoded real-time video and real-time audio from the data stream received from the base station receiver; and

wherein the base station router is configured to route encoded real-time audio to the base station transmitter or to the network bridge.

- 89. (Previously presented) The communication system of claim 88, wherein the router is configured to route encoded real-time video independent of the encoded real-time audio.
- 90. (Previously presented) The communication system of claim 88, further comprising:

a device connected to the network bridge via a network;

a microphone connected to the audio input of one of the mobile access units;

wherein the microphone is configured to generate real-time audio including voice commands;

wherein the device is configured to receive encoded real-time audio information from the fixed base station via the network;

wherein the device is configured to identify voice commands; and wherein the device is configured to respond to identified voice commands.

91. (Previously presented) The communication system of claim 90, wherein:

the base station router is configured to route real-time audio encoded in the third audio format to the base station transmitter or to the network bridge; and

encoded real-time audio that is received by the network bridge is sent to at least one device via the network.

92. (Currently amended) The communication system of claim 86, wherein: the mobile access units further comprise[[s]]:

a user interface input for receiving user input;

wherein the mobile access unit codec is connected to the user interface input and is configured to encode the user interface information received from the user interface input;

wherein the mobile access codec is configured to multiplex the encoded real-time video with at least the encoded user interface information to form [[a]]the data stream that is provided to the mobile access unit transmitter.

- 93. (Previously presented) The communication system of claim 92, wherein the base station router is configured to independently route encoded real-time video information and encoded user interface information.
- 94. (Previously presented) The communication system of claim 92, further comprising:

a device connected to the network bridge via a network;

wherein the fixed base station router is configured to demultiplex encoded user interface information from the data stream provided to the base station router by the base station transceiver;

wherein the router is configured to route encoded user interface information received from the base station router to the base station transmitter or the network bridge;

wherein the device is configured to receive encoded user interface information from the fixed base station via the network; and

wherein the device is configured to respond to encoded user interface information.

95. (Previously presented) The communication system of claim 86, wherein:

the base station router is configured to multiplex the encoded real-time video that is received by the base station router in a data stream generated by the first mobile access unit into a data stream that is provided to the base station transmitter; and

the base station transmitter is configured to transmit the data stream generated by the base station codec that contains at least the encoded real-time video from the data stream generated by the first mobile access unit to a second mobile access unit.

96. (New) A mobile communication system, comprising:

means for capturing real-time video;

means for encoding the captured real-time video;

means for forming a data stream including the encoded real-time video;

means for transmitting the data stream;

means for simultaneously receiving a second data stream including encoded real-time video;

means for decoding the encoded real-time video; and means for displaying the decoded real-time video.